

Notice of Allowability	Application No.	Applicant(s)	
	09/889,416	GOIRE ET AL.	
	Examiner	Art Unit	
	Lawrence Shrader	2193	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment of 4/29/2005.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. This action is responsive to the Applicant's Amendment filed on April 29, 2005.
2. Claims 1 – 15 are allowed.

Drawings

The drawings filed on 7/17/2001 are acceptable subject to correction of the informalities indicated on the drawings, i.e., change the hand made corrections of the translations from French to English. In order to avoid abandonment of this application, correction is required in reply to the Office action. The correction will not be held in abeyance.

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance:

Prior art of record taken either singly and/or in combination, does not teach or disclose a method as recited in independent claims 1 and 14, or a system as recited in claim 8 with the following features:

Claim 1:

A method for loading applications into modules of an embedded system including a virtual machine comprised of a pseudocode interpreter; assigning an identifier to each module,

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and a reference number to each class, each method, and each attribute encapsulated in classes of a module; coding the reference to a method or an attribute in the linked pseudocode of a module in three bytes constituted by an indicator indicating the reference to a class internal or external to the module, the number of the class, and either the number of the method or the number of the attribute.

Claim 8:

An embedded system including a virtual machine and an API platform; three bytes corresponding to a reference to a class internal or external to the module, a reference external to the module constituting the index of the API module in the module array, a class number corresponding to the index of the class in the table representing the classes of the module, and a method or attribute number corresponding to the index or the method or the attribute in the array representing the methods or attributes of the class of the module.

Claim 14:

A method for executing an application of a multi-application embedded system to include a reference to a method or an attribute in pseudocode, coded in at least three bytes corresponding to a reference to a class internal or external to the module, a class number, and a method or attribute number.

The closest prior art is Wilkenson, U.S. Patent 6,308,317, which discloses identification of classes, methods, and attributes via the constant pool, but does not disclose coding a reference to a method or an attribute in the linked pseudocode of a module in three bytes constituted by an indicator indicating the reference to a class internal or external to the module, the number of the

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class, and either the number of the method or the number of the attribute, nor does it disclose a reference external to the module constituting the index of the API module in the module array, a class number corresponding to the index of the class in the table representing the classes of the module.

Thus all remaining dependent claims 2 – 7, 9 – 13, and 15 are also allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence Shrader whose telephone number is (703) 305-8046. The examiner can normally be reached on M-F 08:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Kakali Chaki can be reached on (703) 305-9662. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Lawrence Shrader
Examiner
Art Unit 2193

July 7, 2005

Kakali Chaki
KAKALI CHAKI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100